

OENVIRONMENTAL NOISE DATA HANDBOOK Volume 104. A/M32A-60A Generator Set and A/M32C-16 Air Conditioner, Combined Unit Operation. Approved for public release; distribution unlimited.

> AEROSPACE MEDICAL RESEARCH LABORATORY AEROSPACE MEDICAL DIVISION AIR FORCE SYSTEMS COMMAND WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

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FOR THE COMMANDER

HENNING/E. VON GIER

Director

Biodynamics and Bionics Division Aerospace Medical Research Laboratory

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A/M32A-60A Generator Set, Gas Turbine Engine Driven

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The A/M32A-60A Generator Set is a gas turbine engine driven source of electrical power with pneumatic capability. The A/M32C-10 Air Conditioner is a pneumatic-driven air conditioner designed to provide conditioned air to the aircraft's interior during ground servicing. This report provides measured and extrapolated data defining the bioacoustic environments produced by these two units simultaneously operated as a unit outdoors on a concrete apron at normal rated/loaded conditions. Near-field data are reported for 72 locations in a

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wide variety of physical and psychoacoustic measures: overall and band sound pressure levels, C-weighted and A-weighted sound levels, preferred speech interference level, perceived noise level, and limiting times for total daily exposure of personnel with and without standard Air Force ear protectors. Far-field data measured at 36 locations are normalized to standard meteorological conditions and extrapolated from 20-3000 meters to derive sets of equal-value contours for these same seven acoustic measures as functions of angle and distance from the source. Refer to Volume 1 of this handbook, *USAF Bioenvironmental Noise Data Handbook, Vol 1: Organization, Content and Application, AMRL-TR-75-50(1) 1975, for discussion of the objective and design of the handbook, the types of data presented, measurement procedures, instrumentation, data processing, definitions of quantities, symbols, equations, applications, limitations, etc.

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PREFACE

This report was prepared by the Biodynamic Environment Branch, Aerospace Medical Research Laboratory, under Project/Task 723104, Measurement and Prediction of Noise Environments of Air Force Operations.

The author acknowledges the efforts of Mr. Robert G. Powell and Mr. Robert A. Lee who assisted in conducting the field measurements, and Mr. John N. Cole who established the data analysis requirements and assisted in the preparation of this report. Mr. Henry Mohlman and Mr. David Eilerman of the University of Dayton assisted in the mechanics of data processing, and Mrs. Norma Peachey and Mr. Mike Patterson typed and prepared the graphics.

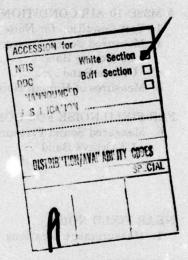


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INTRODUCTION

The A/M32A-60A Generator Set, which is manufactured by the HOL-GAR Manufacturing Corporation, is a gas turbine engine-driven source of electric power. This unit also provides pneumatic power to drive the A/M32C-10 Air Conditioner, manufactured by United Aircraft Products, Inc., providing conditioned air to an aircraft's interior during ground servicing.

This volume provides measured and extrapolated data defining the bioacoustic environments produced by these units. Such data are essential to evaluate ear protection requirements, limiting personnel exposure times, voice communication capabilities, and annoyance problems associated with the combined simultaneous operation of the A/M32A-60A generator set and the A/M32C-10 air conditioner.

This volume is one of a series published by the Aerospace Medical Research Laboratory (AMRL) under the same report number (AMRL-TR-75-50) as a multi-volume handbook that quantifies the noise environments produces at flight/ground crew locations and in surrounding communities by operations of Air Force aircraft and ground support equipment. The far-field, community-type, noise data in the handbook described the noise produced during ground operations of aircraft, ground equipment, and other ground-based equipment or facilities.

Volume 1 of this handbook discusses the objectives and design of the handbook, the types of data presented, measurement procedures, instrumentation, data processing, definitions of quantities, symbols, equations, applications, limitations, etc. Volume 2 provides a method and data for adjusting the handbook's far-field noise data, which are for standard meteorological conditions (15C temperature, 70% rel humidity, 0.760 meters Hg barometric pressure) to derive comparable data for other meteorological conditions. Refer to Volumes 1 and 2 (references 1 and 2) for such information because it is not repeated in other handbook volumes.

A cumulative index lists those aerospace systems contained in the handbook, and identifies the specific volumes containing each type of environmental noise data available (i.e., inflight/flight crew and passenger noise, near-field/ground crew noise, far-field/community noise). Volume numbers are assigned sequentially as individual volumes are published. This index is periodically updated as individual volumes are published, and is available upon request from AMRL/BBE, Wright-Patterson AFB, OH 45433. Organizations on the distribution list for the handbook will automatically receive a copy of the updated index as it is generated.

Direct any questions concerning the technical data in this report and other handbook volumes to: AMRL/BBE, Wright-Patterson AFB, OH 45433; Autovon 78-53675 or 78-53664; Commercial (513) 255-3675 or (513) 255-3664.

Cole, John N., USAF Bioenvironmental Noise Data Handbook, Volume 1: Organization, Content and Application, AMRL-TR-75-50 (1), Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, 1975.

Cole, John N., USAF Bioenvironmental Noise Data Handbook, Volume 2: Procedure to Evaluate Effects of Non-standard Meteorological Conditions on Far-Field Noise, AMRL-TR-75-50 (2), AMRL, WPAFB, OH, 1975.

NEAR-FIELD NOISE

MEASUREMENTS

A standard A/M32A-60A Generator Set and a standard A/M32C-10 Air Conditioner (being driven by the generator) were simultaneously operated outdoors on a concrete apron at normal rated conditions. The generator set was loaded at 100 amp, 240 volts AC, 3 phase by an M24T-8 load bank, supplying 40 PSI air to drive the air conditioner, which had an output of 40 lb/min. No significant sound-reflective surfaces were present except the ground plane. The load bank was physically located so as to not interfere with the two unit's noise field. Table 1 notes the surface meteorological conditions at the time of measurement.

Figure 1 identifies 108 noise measurement locations at a height of 1.5 meters above the concrete apron (nominal ear level of ground crew). The 0 degree reference direction passes through the tow bar. The 72 locations on the four inner circles are in the acoustic near-field of the source where the sound wave fronts generally do not spherically diverge and the source appears to be spatially distributed (i.e., not a point source). Consequently, these near-field data cannot be extrapolated to longer distances but do properly define the levels at locations close to the unit.

Table 1 lists the alphabetic designator used on the data pages in this report to identify the test condition. The designator A means test condition A. Such a descriptor is essential in many handbook volumes that involve multiple combinations of location/conditions. It is used in this report to maintain format consistency.

RESULTS

The measured data presented in Tables 2 and 4 define the sound pressure levels (SPL) produced by the simultaneous operation of the A/M32A-60A and the A/M32C-10 units respectively at the 72 specified, near-field locations. This table includes the overall, 1/3 octave band, and octave band levels. From these data one can calculate the variety of measures in Tables 3 and 5 which are widely used to assess the effects of noise on personnel and their performance.

For data at other intermediate near-field locations (i.e., for radial distances less than 20 meters) you can interpolate between the 108 measured data points. All near-field data are for the meteorological conditions at the time of test but are valid for all typical airbase meteorology because of the short distances over which the sound is propagated.

TABLE 1

TEST CONDITION FOR NOISE MEASUREMENTS

Edwards AFB, 3 June 1975

A/M32A-60A Generator Set, Gas Turbine Engine Driven FSN 6115-420-8486, Mfr. Part # 69E39110, and

A/M32C-10 Air Conditioner FSN 4120-196-5252, Mfr. Part # UA532888-1

Operation

A Generator loaded at 100 amp, 240 VAC, 3 phase by M24T-8 load bank and supplying 40 PSI air to drive the air conditioner whose output is 40 lb/min.

Meteorology

Temperature 29 C
Bar Pressure 0.693 M Hg
Rel Humidity 24 %

FAR-FIELD NOISE

MEASUREMENTS

Noise measurements were also made on the same A/M32A-60A and A/M32C-10 units under the same test conditions at the outer circle locations on Figure 1. These 36 locations are assumed to be in the acoustic far-field of the source where the sound wave fronts spherically diverge and the unit may be regarded as a point noise source. Under these far-field conditions, the measured data can be extrapolated to longer distances.

RESULTS

Table 6 lists the overall and 1/3 octave band SPL measured at the 36 far-field locations under the meteorological conditions at the time of test. These data were normalized to 30 meters distance and standard meteorological conditions (15C temperature, 70% rel humidity, 0.760 meter Hg barometric pressure) and used to derive the graphic data in Figure 2 which provides a compact summary of the far-field noise characteristics of the two simultaneously operating units.

These measured data were also used to derive sets of equal noise contours (Figures 3 through 9) describing seven different measures of noise as functions of angle and distance from the source for standard day meteorology. Note that Figure 8 contours identify limiting exposure time for personnel. Missing data points on any of the contours are the result of eliminating measured data which contained excessive influence of spurious background noise present at the time of measurement. In some cases, contour levels at these missing data points were estimated and indicated with dashed lines.

Volume 2 of the handbook defines the influence of meteorology on far-field noise environments and provides, if required, the factors necessary to adjust the handbook standard meteorological day data.

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NOISE SOURCE/SUBJECT	UBJECT:	2	OPERATIONS				-					RUN	10	
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315		66	66	100	66	96	6	93	8	66	101	46	96	8
004		93	46	*	35	86	96	8	5 6	95	96	*	60	92
200		5 6	6 6	26	2 4	9 4	20	2 4	3 4	2 6	101	2 6	15 8	0 0
800		88	87	22	26	20	92	98	9	96	36	93	91	96
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0004		88	96	88	98	83	82	82	82	85	60	98	83	81
2000		93	19	98	82	91	90	19	19	85	96	88	*	83
6300		87	85	93	91	62	62	8	18	83	91	88	*	83
9000		84	82	93	62	28	2	2	8	82	69	98	82	8
10000		86	96	8	*	83	82	83	.	83	20	9	2	29
OVERALL		107	106	106	105	104	103	103	101	101	109	101	101	103

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7	1/3 OCTAVE BAND		BAND									IDENTI	IDENTIFICATIONS ONEGA 3.2	TIONS
NOISE SOURCE/SUBJECT A/H32A-604 GENERAT AND A/H32C-19 AIR COMBINED UNIT OPER NEAR FIELD NOISE L	ISE SOURCE/SUBJECT: A/H32A-60A GENERATOR SET AND A/H32C-10 AIR COND. COMBINED UNIT OPERATION NEAR FIELD NOISE LEVELS	30000	OPERATION: GEN LOADED GEN LOADED 3PH, BY M24 40 PSI AIR AC AIR OUTP	CIRCO	100AMP, 17-8 LO 10 A/N	DAMP, 240VAC 8 LOAD BANK, A/M32C-10, 46 LBS/HIN	2 z	6 28 17		2 22	2 ×2	RUN 16 00	LESI 75-830 RUN 02 16 OCT 75 PAGE F2	
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20		98	87	95	87	88	92	91	91	25	92	92	91	92
63		96	96	16	93	91	95	16	96	36	*6	95	*6	46
8		93	60	96	96	97	86	97	76	96	16	93	*	8
126		0 0	5 5	2 2	2 5	9 6	96	6 6	5 6	26	96	16	26.0	6 6
160		96	95	62	93	92	26	97	26	66	66	9 6	101	182
200		91	68	96	91	95	96	96	86	66	96	66	66	100
250		66	96	95	96	26	101	66	16	26	96	96	66	102
315		95	96	96	66	100	103	102	100	66	16	97	66	100
004		94	98	88	91	93	102	100	66	16	96	46	95	86
200		60	92	87	86	95	101	101	66	16	95	93	91	*6
630		87	88	8	3	90	96	96	95	93	36	88	88	60
800		86	87	96	36	88	93	93	35	36	95	90	96	92
1000		82	83	85	87	98	87	85	85	98	87	87	88	69
1250		81	90	2	82	48	87	87	- 29	98	92	85	98	98
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6300		82	80	81	93	83	88	88	99	67	95	85	90	10
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1 ABLE: HEA:	MEASUREU SOUND PRESSURE LEVEL 1/3 OCTAVE BAND	SSURE	LEVEL	608								DENTIFICATIONS ONEGA 3.2
NOISE SOURCE/SUBJECT A/H32A-60A GENERAT AND A/H32C-10 AIR COMBINED UNIT OPER NEAR FIELD NOISE L	SUBJECT: GENERATOR SET 10 AIR COND. NIT OPERATION NOISE LEVELS		OPERATIONS GEN LOAD 3PH, BY 40 PSI A AC AIR O	ADED T #24 AIR OUTP	100ANP 1-8 LO 70 A/H	ERATION: GEN LOADED 100AMP, 240VAC 3PH, BY M24T-8 LOAD BANK, 40 PSI AIR TO A/M32C-10, AC AIR OUTPUT 40 LBS/MIN	95	12 27	14 28) RUN 03) 10 OCT 75) PAGE F3
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Z OCTAVE BAND	D PRESSURE	JRE 1	LEVEL	609) IDE	DENTIFICATION ONEGA 3.2	TIONS
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2 00	MEASURED SOUND PRE OCTAVE BAND	PRESSURE	E LEVEL	8		ĺŧ	2 2 (14) 3 (15) 1 (15)			100	lg.		IDENTIFICATION	TION:
NOISE SOURCE/SUBJECT A/N32A-60A GENERAL AND A/N32C-18 AIR COMBINED UNIT OPER NEAR FIELD NOISE I	OISE SOURCE/SUBJECT: A/H32A-60A GENERATOR SET AND A/H32C-19 AIR CONG. COMBINED UNIT OPERATION NEAR FIELD NOISE LEVELS		OPERATION GEN LOAG 3PH, BY 40 PSI AC AIR	ATIONS N LOADED H, BY N2 PSI AIR AIR OUT	4125	DAMP, 240VAC B LOAD BANK, A/M32C-10, 40 LBS/MIN	8 % × ×		833588	対できたから 毎分子和会員 10分子を		10 0C	TEST 75-03 RUN 02 10 OCT 75 PAGE J2	
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200	Contract Contract	3 2	9 2	93	95	8	105	101	103	101	66	26	26	6
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2080		9.6	83	92	68	91	91	*6	93	96	91	87	87	29
*000		96	87	87	96	92	96	96	96	93	91	86	91	16
0000		96	92	98	8	68	96	46	\$	16	3	91	95	92
OVERALL		102	103	184	105	106	110	100	***	10.0	107	107	***	100

7ABLE: NE	D SOUND BAND	PRESSURE	: LEVEL	80							13 10, 6)	IDENT	IDENTIFICATION	LONe
NOISE SOURCE/SUBJECT A/H32A-604 GENERA AND A/H32C-10 AIR COMBINED UNIT OPEI NEAR FIELD NOISE	OISE SOURCE/SUBJECT: A/M32A-60A GENERATOR SET AND A/M32C-10 AIR COND. COMBINED UNIT OPERATION NEAR FIELD NOISE LEVELS		OPERATION: GEN LOADED GEN LOADED 3PH, BY M24 40 PSI AIR AC AIR OUTP	OF RED	100AN 11-8-LO 110 AV	, 240VAC AD BANK, 132C-10, LBS/HIN	24.x	# 7 G	9 9 F		46.6	RUN 10 OC	1651 75-03 RUN 03 10 0CT 75 PAGE J3	
FREG	DISTANCE (H) -> ANGLE (DEG)> CONDITION>	160 A	2 180 A	200 200 A	220 220 A	2 5 0 A A A	260 260 A	280 280 A	300 300 A	2 320 A	340 340			
31.5		96	93	*6	. 5	- 6	69	68	68	6	92	10 (A) A)		
63	NET ETG NOBE 2	101	66	86	95	95	26	96	97	66	100			
125		105	106	105	103	102	101	101	102	100	66			
250		109	110	108	104	103	102	103	103	103	105			
200		105	107	103	96	97	26	96	66	100	102		187	1233
1000		16	95	86	96	46	46	46	95	96	95			
2000		96	91	88	99	68	19	87	06	95	92			
0004		76	96	95	95	95	93	95	92	16	95			
9000		96	95	95	*6	93	95	16	95	93	*6			
OVERALL		112	113	111	108	107	107	107	107	108	109			

SCHOOLS BY HOMEN HOLDS EXECUTE

TABLE: MEASURES OF 1	HUMAN NOISE	JI SE	EXPOSURE	RE.								ONEGA	DENTIFICATIONS OMEGA 3.2	100
NOISE SOURCE/SUBJECT! A/M32A-60A GENERATOR AND A/M32C-19 AIR CC COMBINED UNIT OPERAT REAR FIELD NOISE LEV	OR SET COND. ATION EVELS	5	PERATIONS GEN LOADED 3PH, BY M2 40 PSI AIR AC AIR OUT	ADED 10 V M24T- AIR TO OUTPUT	18 8 AMP, TO A/H3	DED 188AMP, 248VAG N24T-8 LOAD BANK, AIR TO A/M32G-19, DUTPUT 48 LBS/MIN	23.2					PAGE O	RUN 81 10 OCT 75 PAGE H1	
DISTANCE (ANGLE (DEC		***	> 0 4	***	+0 <	≯ 8∢	484	120 A	4 2 4	4 5 4 4 5 4	7 P P	7 5 4 V	22. A	+ % -
HAZARO/PROTECTION C-NEIGHTED OVERALL A-NEIGHTED OVERALL MAXIMUM PERMISSIBLI MA DROTECTION	L SOUND	LEVEL CEVEL	Mary State of the	HHA	DBC) A DBA) A FOR ONE	AT EAR AT EAR NE EXPOSURE		PER DAY	, and a	161-35, JULY	1	52		
	##"	106 101 25	2100	105	104	103	102	103	104	101	104	101	183	500
		5 63	266	679	901	096	6.9	960	= 5	63		512	===	===
	OB SAR	79 960	2 4 8 9 6 0	78	960	920	75	960	92 896	960	96	960	96.9	96
OASLA* T T AMERICAN OPTICAL 170	6 649 60	78 960	960	960	960	960	73	74	22	960	917	296	929	296
H-133 GROUND COMMUNI OASLAT	T I	63 N UNIT 73 960		96 73 96 96		960 24	96 96 96 96 96 96 96 96 96 96 96 96 96 9	960	39 29	63 960 72 968	960	23 43	198 228	82 29
COMMUNICATION PREFERRED SPEECH 1 PSIL	INTERFERENCE 94	RENCE 94	LEVEL 93	(PSIL 92	NI 8	06		2	8	86	96	\$	2	\$
ANNOVANCE PERCEIVED NOISE LE TONE CORRECTION (C PMLT	C IN DB)	2 8 Z	ORRECT 117	TEO (PI 115	117	CORRECTED (PMLT IN PNDB) 117 115 117 114	37	# "	113	115	611	911	==	112

DENTIFICATIONS ONEGA 3.2	75	2 1 4 A		109	z	339	82	679	8	960	69	960	960	\$		111
DENTIFI	OCT 7	128 A		107	2	492	: :	96	25	96	63	96	126	92		115
010	1657 RUN 10 00	100 100 A	5	107	30	1 9	2	960	=	960	63	960	74 960	92		115
	6- 65 1-10 1-10	~ ° <	300	107	25	799	20	960	82	196	63	960	12	\$ o \$		111
	Art Parks	209 V	161-35,	106	18	109	90	960	2	196	•9	196	960	6		120
	TŠ	~?~	CAFR	108	2	404	8	960	8	196	69	960	920	*		8-
	60 (0). 17 17	~ 0 ~	PER DAY	109	13	339		807	95	619	99	960	960	8		120
	9.	NO4		110	13	285	82	629	82	619	99	960	960	. 6	2.2	#
	.00AMP, 240VAG -8 LOAD BANK, 0 A/M32G-10, 17 40 LBS/HIN	4 0 4 K	AT EAR AT EAR IE EXPOSURE	100	30	63	2	960	12	096	62	960	73	08)	PN08)	116
	100AMP, 17-8 LOA 10 A/H3	320 A	IN DBG) A IN DBA) A S) FOR ONE	105	36	679	"	960	92	960	62	960	960	NI 8	L IN	115
URE	LIR TE	4 0 4 4 0 4	COASLC IN COASLA IN MINUTES) F	104	20	81	"	960	75	960	99	960	71	L (PSIL	CORRECTED (PNLT IN PND8)	112
EXPOSURE	OPERATIONS GEN LOAD 3PH, BY 40 PSI A AC AIR O	7 8 8 V V		103	3	960	25	960	7.3	096		960	960	E LEVEL	CORREC	#
NOISE	50000	260 A	D LEVEL TO LEVEL TO TEVEL	102	9	960	MUFF.	960	73	MIFF	20	960	69	ERENCI 88	TONE	11.
TABLE: MEASURES OF HUMAN P	NOISE SOURCE/SUBJECT: A/M3ZA-60A GENERATOR SET AND A/M3ZG-10 AIR CONO. COMBINED UNIT OPERATION NEAR FIELD NOISE LEVELS	DISTANCE (M) -> ANGLE (DEG)> CONDITION>	EOGE	OASLC	HINIHUH OPL EAR HUFFS		AMERICAN OPTICAL 1700 EAR		V-51R EAR PLUGS DASLA*	AMERICAN OPTICAL 1200 EAP		T T T T T T T T T T T T T T T T T T T		COMMUNICATION PREFERRED SPEECH INTERFERENCE PSIL 60	LEVEL,	PINE CURRECTION (C. IN DE

. BASED ON CALCULATED SPL SPECTRUM UNDER PROTECTIVE DEVICE.

TABLE: MEASURES OF MUMAN NOISE 3	1010	EXPOSURE	e e			Apon					8	ONEGA 3	OMEGA 3.2
NOISE SOURCE/SUBJECT! A/H32A-60A GENERATOR SET AND A/H32C-10 AIR CONO. COMBINED UNIT OPERATION NEAR FIELD NOISE LEVELS		DERATION: SEN LOADED SPH, BY M24 40 PSI AIR AC AIR OUTE	ON: OADED 10 BY M24T- I AIR TO R OUTPUT	21.62	JAMP, 240VAC LOAD BANK, A/M32C-10, 40 LBS/MIN	2 . z	⊢ α α ₩	- (N)	eri eta La Sala	15-74 35 15	RUN 10 0	T = 22	
CE (M) -> (DEG)> ION>	29 V	7 P P	200 A	228 A	~ ? ×	7 8 4 V 8 8	280 A A	300 A	320 A	340 A	9 000		1 20
HAZARD/PROTECTION C-WEIGHTED OVERALL SOUND A-WEIGHTED OVERALL SOUND HAXINUM PERMISSIBLE TIME		LEVEL COA LEVEL COA (T IN MIN	COASLC IN	080 080 080 080	AT EAR AT EAR NE EXPOS	SURE	PER DAY	CAFR	161-35,	, JULY			© 0 3 0 0 0
NO PROTECTION OASLC	1112	113	#	100	107	106	201	107	108	109	200	200	61 C
40000	13	6	13	77	25	752	32	52	32	12		20 PM	77
MINIMUM OPL EAR MUFFS OASLA*	68	90	88	92	*	83	*	*	*	92	(र) व	7 (C)X	12
420 420	202	170	240	+0+	4.80	57.1	084	480	084	101	485		(2) (2) (3)
	92	. 85	:	81	7.9	29	7.9	2	80	81			die Or
V-51R EAR PLUGS	707	*0*	4 90	200	96	196	960	96	96	208	2	125	
	100	500	63	94.0	929	77	8 28	2 9	6 4	81			1 (S)
AMERICAN OPTICAL 1700 EAR OASLA*	88 68	S PLUS	V-51	EAR P	4.UGS	63	63	3	65	65			
1	960	196	960	960	960	096	960	960	960	960			
DASLA* 78		62	7.8	75	1.4	2	2	22	75	92			
The second section of the second	096	960	960	960	096	96	960	096	960	960	7		
COMMUNICATION PREFERRED SPEECH INTERFERENCE PSIL	SENC 96	SE LEVEL	L (PSIL 97	. 35	93	E 101	26	Z 8		.	2	43 201 (e)	20
ANNOYANCE PEVEL, T	TONE	CORREC	160	CORRECTED (PNLT IN	PNOB								
1	120	121	120	111	116	116	115	111	1119	1119			

•	I/S UGIAVE BAND											ONEGA	GA 3.2	
NOISE SOURCE/SUBJECT		-	OPERATIO	NO	20 - 1000	M 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-					2 E	64-0	04-030-00
A/H32C-10 AIR COND			AC AI	•	104 10	40LBS/MIN,					A 10 10 10 10 10 10 10 10 10 10 10 10 10		The state of the s	
COMPINED UNIT OPER	N-50A GEN. SET	٠.	3PH.	SEN LOADED	TOOMING	T-A LOAD BANK	NC.			700	**	10	10 OCT 75	
NEAR FIELD NOISE L	D NOISE LEVELS	9			TO AZH	AIR TO A/H32C-10		81 s 25 c	OH !	9.0) PAGE	E F1	
0.880	`	9	100		N. S.		0.0	4.0		20	117	8.4		100
3,025 13	DISTANCE (M)->	*	*	*	*		1	*	*	•		*		
FREG	ANGLE (DEG)>	•	20	;	9	80	100	120	140	160	180	200	220	042
(142)	CONDITION	4	10	4		A C	9. (*		CH IS	3 0	17.00	*	
25		794	834	844	A34	A3c	Ane	784	80.4		8.74		80.6	70.5
31.5		784	824	834	834	774	784	774	79.	834	Ank	834	794	764
0,		764	794	>62	804	804	804	794	824	864	824	834	814	794
20		784	824	83<	834	824	84	**	92	98	87	96	834	814
63		83	**	87	97	99	99	19	96	91	91	91	90	98
90		96	88	68	36	93	91	95	95	96	96	16	96	26
100		96	99	88	93	93	36	96	8	96	96	95	96	95
125		06	90	97	35	16	91	95	16	93	*6	93	26	60
160		26	60	91	*	96	*6	95	96	95	66	36	26	93
200		92	**	90	8	6	90	68	96	66	93	88	96	87
250		81	0	*	92	92	92	92	96	93	96	16	87	92
315		10	29	92	*	92	92	91	32	86	66	97	93	8
004		22	2	82	29	63	92	2	93	93	93	2	91	2
200		92	21	83	9	8	60	16	96	*	91	8	3	88
630		9,	=	92	*	20		6	87	8	26	92	90	8
900		2	2	91	62	93	9	95	82	87	97	92	81	8
1000		2	92	11	11	92	92	7.8	2	8	91	5	**	8
1250		:	=	2	1	78	92	7.8	2	82	90	00	9.1	8
1600		:	1.	2	26	62	26	2	2	8	23	28	7.9	2
2000		62	11	62	92	28	62	18	82	95	19	00	85	63
2500		28	92	2	11	11	11	=	93	*	82	83	**	82
3150		62	7.0	2	2	28	79	10		85	93	*	93	82
0004		11	92	11	62	2	:	83	93	97	**	:	63	82
2000		30	95	2	=	22	29	*	88	96	60	92	93	1
6300		92	2	92	2	92	11	63	*	92	*	2	91	18
9000		73	73	*	1.4	22	7.8	91	82	*	81	62	7.8	11
10000	A MONTRE CEMENTS	92	73	23	7.8	81	81	29	•	96	*	**	**	=
OVERALL			•	•		;				20,	***	70.		:

Manager and strategy of the st

NOISE SOURCE/SUBJECT1 A/H32C-10 AIR CONDITIONER AND A/H32A-60A GEN. SET	8	PERATIONS AC AIR O GEN LOAD	ERATION: AC AIR OUTPUT GEN LOADED 10	JT 40L8	40LBS/HIN, AMP, 240VA			1 8	1 0	1 2	0 ONE GA 1 TEST 1 RUN (ONEGA 3.2 TEST 75-030-001 RUN 05 10 OCT 75	-0
RATION		3PH, BY M24 40 PSI AIR	AIR T	FO A/N	4T-8 LOAD BANK, TO A/M32C-10			34	8.0	3.1) PAGE	F2	2
÷ (E)			5.	9.4		~		% N	. 2	~	. N		. 0
1 (93 1 (93	260 A	280 A	300 A	320 A	340 A	04	20 ¥	7 -	9 4	: ←	10 ×	120 A	34
				- 1	ar) er a							0 y	
	764	4 %	774	80×	804	794	77.				774	634	2 2
	784	264	77.	774	804	914	784	794	277	914	914	944	954
	834	>00	80×	804	784	814	*09	904	914	914	834	96	:
	88	9 6	98	93	92	62	92	92	92	98	20	60	20
	26	92	5 6	8	60	60	60	63	60	60	86	86	86
	26	26	3 5	6 2	6 4	2 5	2 5		2 6	2 2	26	76	? 6
	93	95	*6	93	88	92	35	2	93	95	3	: 5	92
	19	87	87	98	94	87	28	98	96	91	91	91	16
	85	8.5	93	83	81	9.4	83	83	92	96	60	:	60
	88	98	2	97	82	83	93	85	*	96	2	68	92
	2 %	82	3 4	8.6	2:	81	2 9	2 2	9 6	8 6	6 6	6 6	200
	58	85	82	83	2 2	2 2	2 2	2 2	8	8	32	36	36
	88	**	83	81	: 2	80	81	8	93	83	10	83	62
	62	29	62	7.6	73	82	95	28	28	11	7.8	23	29
	90	78	62	2	11	1.0	83	12	29	92	2	11	2
	22	2	22	2	22	15	28	75	75	75	11	2	2
	82	11	92	2	92	83	96	93	62	22	2.	22	:
	82	2	75	92	92	83	*	1	28	28	8	10	:
	82	62	1.2	92	92	*	85	82	8	28	=	82	82
	00	18	26	75	22	82	83	28	90	28	18	83	82
A 182 3	62	77	28	23	11	**	92	82	92	7.8	62	90	60
	92	75	73	2.	*	9.6	83	28	10	11	28	:	*
	*2	73	7.0	73	72	00	9	15	77	75	75	110	93
00 T	62	7.8	73	72	11	7.8	22	22		10	90	29	:
ANTERONY	101		-	•		9	8						

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4	1/3 OCTAVE BAND											ONEGA 3.2	A 3.2	
NOISE SOURC A/H32C-10 AND A/H32 COMBINED NEAR FIEL	ISE SOURCE/SUBJECT! A/M32C-10 AIR CONDITIONER AND A/M32A-60A GEN. SET COMBINED UNIT OPERATION NEAR FIELD NOISE LEVELS		OPERATION AC AIR GEN LOA 3PH, BY	ON: R OUTE DADEO	10 A/H	ERATION: AC AIR OUTPUT 40LBS/MIN, GEN LOADED 180AMP, 240VAC 3PH, BY M24T-8 LOAD BANK, 40 PSI AIR TO A/M32C-18	, , , , , , , , , , , , , , , , , , ,					RUN TO OC TO THE OC TO THE OC TO THE OCT THE O	LESI 75-ER RUN 06 10 OCT 75 PAGE F3	
	DISTANCE (M)->	2	~	2	~	2	2	2	2	2	8			
FREG	EG)	160	180	200	220	240	260	280	300	320	340			
(HZ)	CONDITION	4	•	4	•	4	«	80	4	4	₹			
25		814	804	804						1/8		10.00		
31.5		794	804	80.	774	77.					794			
9		814	944	834	834	774	774	764		764	794	遊戲		(0) t
20		954	834	98	954	914	814	85<	814	814	814			
63		2	60	8	87	88	84	98	10	48	92			+ 0
200		26	5 6	26	93	96	16	91	16	60	60			
125		26	16	36	2 6	20	26	26	26	2 0				
160		3	6	93	92	6 6	80	92	92	66	93			
200		*6	93	36	96	96	95	68	88	98	98			
250		16	96	89	88	92	10	92	92	83	92			CS
315		92	92	8	35	88	8	97	*	96	92			
004		06	92	92	89	6	96	87	96	98	82			
200		90	6	8	91	16	68	87	88	88	96			
630		*	9 9	83	**	83	92	96	95	00	28			
000		92	92	82	85	21	8	2	2	11	21			
1000		00	2 8	2 :	5;	2 6		2;	21	::	23			
1600		80	2 2	2 2	22	22	2,2	2,0	12	2,0	32			
2000		81	9	90	78	78	22	78	2	12	2 2		De Silver	
2500		83	8	9	81	28	7.8	92	:2	75	7.8			0.59
3150		96	82	10	83	91		00	80	11	2			
0004		88	10	10	92	19	62	62	8	7.8	62			おから
2000		95	98	98	90	82	2.0	92	2	92	00			
6300		91	*	92	98	91	22	22	2	2	90			
8000		98	82	85	83	62	26	75	92	2	92			
10000		91	88	88	97	*	82	10	90	2	92			
OVERALL		103	102	102	102	100	100	100	66	86	86			

4	U Z	PRES	SURE	OUND PRESSURE LEVEL 0	8	ng payar g Or payor g		12 CO (S) .			e a ri Zeraji	5 5 4 1 2 14 7 1	O O O	IDENTIFICATION: OMEGA 3.2	TIONS
NOISE SOURCE/SUBJEC A/H32C-10 AIR CON AND A/H32A-60A GE COMBINED UNIT OPE NEAR FIELD NOISE	OISE SOURCE/SUBJECT: A/H32C-10 AIR CONDITION AND A/H32A-60A GEN. SET COMBINED UNIT OPERATION NEAR FIELD NOISE LEVELS	ONER ET LS	0	OPERATION: AC AIR OUTPUT GEN LOADED 100 3PH, BY M24T-6 40 PSI AIR TO	N. OUTP ADED Y H24	UT +0L 100ANP 1-8 LO 10 A/H	N: OUTPUT 40LBS/HIN, ADED 100AMP, 240VAC Y H24T-6 LOAD BANK, AIR TO A/H32C-10	* ¥ ¥ .		110000				TEST 75-0 RUN 04 10 OCT 75 PAGE J1	00-00
FREG	DISTANCE (M)-3 ANGLE (DEG)3	21	+0	% → 8	· + 3	4 9	3 3 8	. .	120	. 49	160	180	200	220	240
CH2	CONDITION-	î		*	۷.	•	•		4	4	*	*	4	4	•
31.5			83	96	18	87	98	40	83	85	88	87	87	85	83
63			91	96	35	93	16	93	95	%	97	96	96	97	93
125			95	93	*	86	96	96	66	100	66	101	66	96	86
250			88	87	8	35	95	95	*	26	66	101	96	36	16
200			82	82	88	69	95	26	*	86	86	97	36	96	93
1000			80	95	93	93	92	82	*	92	60	88	87	60	68
2000			95	81	95	10	83	82	92	98	88	98	96	88	98
4000			18	*8	95	83	83	10	87	8	95	96	60	98	98
9000			90	62	81	91	85	83	69	8	95	88	98	98	93
OVERALL			86	97	86	100	101	101	103	104	105	106	104	183	101

TABLE: H	MEASURED SOUND PRESSURE LEVEL (DB) OCTAVE BAND	SSUR	E LEVEL	600					18) TOE	DENTIFICATIONS ONEGA 3.2	TIONS
NOISE SOURCE/SUBJEC A/H32C-18 AIR CON AND A/H32C-68 GEI COMBINED UNIT OPEI NEAR FIELD NOISE I	OISE SOURCE/SUBJECT: A/H32C-10 AIR CONDITIONER AND A/H32A-60A GEN. SET COMBINED UNIT OPERATION NEAR FIELD NOISE LEVELS		OPERATION: AC AIR OUTPUT GEN LOADED 100. 3PH, BY M24T-8	R OUT OADED BY H2	N: 	40LBS/HIN IAMP, 240V 1 LOAD BAN A/H32C-18	.95						TEST 75-030 RUN 05 10 OCT 75 PAGE J2	- 00
FREG	DISTANCE (M)-> ANGLE (DEG)> CONDITION>	7 9 V	7 0 4 7 0 4	+ 0 ×	320 A	3 to 4	N 0 <	20 A	~3×	~ 89 ∢	~84	7 P A	128 A	~ 34 ×
31.5		83	. 6	95	98	91	91	22	8		7 6	95	0 6	98
125		96	96	26	6	36	96	95	3	96	26	86	26	6
200		92	3 3	68	2 6 5 6	63	9 9	8 8	2 2	26	9 8	* 5	* *	2 2
1000		66	98	92	2	62	92	98	63	82	*	:	2	2:
		6 6	2 4	3 5	82 82	61	9 9	5 6	6 8	82	63.	2 6	5 6	3 5
		=	2	: :	2 3	: :	90	92	z (*	20			8

The state of the s

) IDENTIFICATIONS) OMEGA 3.2	ERATION:	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	60 92 93 92 92 95 95 96 96 94	93 94 92 90 89 94 91 91 91 91 91	84 83 82 81 82 80 82 89 86 83 83 84 86 84 90 87 84 83 83 81 82	
LEVEL (08)	OPERATION: AC AIR OUTF GEN LOADED 3PH, BY M24	2 2 180 200 A A			4 6 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
TABLE: MEASURED SOUND PRESSURE LEVEL	NOISE SOURCE/SUBJECT: A/M32C-10 AIR CONDITIONER (AND A/M32A-60A GEN. SET (COMBINED UNIT OPERATION (NEAR FIELD NOISE LEVELS (DISTANCE (M)-> 2 FREQ ANGLE (DEG)> 160 (HZ) CONDITION> A	新 ストルをいっている。 の元で、最初にの数 5	76 095 76 005	2000 4000 8000 8000	1 14 00 100

5	- 88 - 88 - 88 - 88 - 88 - 88 - 88 - 88							* E	* 5		OMEGA	OMEGA 3.2	~
NOISE SOURCE/SUBJECT: A/M32C-10 AIR CONDITIONER AND A/M32A-60A GEN. SET COMBINED UNIT OPERATION MEAD ETELD NOTE: LEVELS	3000	OPERATIONS AC AIR O GEN LOAD 3PH, BY	ERATION: GEN LOADED 10 SPH, BY M24T-	100 40LB	DUTPUT 40LBS/MIN, DED 100AMP, 240VAC M24T-8 LOAD BANK,	295	2	2	9	0.8	RUN 10 00	OCT 75	
DISTANCE (M) -> ANGLE (DEG)> CONDITION>	>ot	404 P 0		194	\$64	104 1004	120 A	7 4 4 A	160 A	180 A A	20¢	750 V V	44 A
HAZARD/PROTECTION C-WEIGHTED OVERALL SOUND			COASIC IN	080	AT EAR								5.4
Ę		CT IN MIN					PER DAY	CAFR	161-35,	JULY	73)	(0) (1) (2) -14	12 T/ Gr. 14 NJ
	96	96	98	100	101	101	102	104	105	106	104	103	101
040	170	202	143	120	101	101	9	45	36	36	20	20	12
DASLA*	16	7.3	75	78	62	7.8	80	82	82	83	81	9.0	62
	960	o	960	096	960	096	096	619	619	115	208	960	960
OASLA*	22	69	0.2	73	1.4	74	92	11	11	82	11	92	12
-	096	960	096	960	096	096	096	096	096	096	096	096	960
V-51K EAK PLUGS OASLA*	65	9	67	69	20	70	72	22	92	92	2	22	7
T AMERICAN OPTICAL 1700 EAR	960 MUFF	960	0 >	960	960	096	096	096	096	096	960	096	960
	53	C	54		25	25	26	09	198	61	23	65	28
H-133 GROUND COMMUNICATION UNIT	N C		300	200	9 4	9 4	2	300	300	300	36.	7 6	9
	960	960	960	960	960	960	960	960	960	960	960		960
COMMUNICATION PREFERRED SPEECH INTERFERENCE PSIL 81	ERENC 81	SE LEVEL	L (PSIL 85	Z d	98	8	80	06	16	8	6	16	6.0
ANNOYANCE PERCEIVED NOISE LEVEL, TONE CORRECTION OF IND	TONE		TEO (P	NLT I	CORRECTED (PNLT IN PNDB)							10 mm	
!	107	107	107	107	109	108	112	115	116	115	113	112	3-

2		10 mg		- 1				10 E	()	La Ca	OMEGA	GA 3.2	2
NOISE SOURCE/SUBJECT: A/N32C-10 AIR GONDITIONER AND A/N32A-60A GEN. SET		OPERATION AC AIR GEN LOA	DE0	PUT 40LBS 100AMP,	40LBS/MIN, AMP, 240VAC	, , ,					2 S S S	RUN 05	
		3PH, BY	BY M2	10 K		, ¥	3	\$		100 193	PAGE	93	3
DISTANCE (M)-> ANGLE (DEG)> CONDITION>	7 P P P P P P P P P P P P P P P P P P P	280 A	40 4 90 4	320 A	4 % 4 M 4	NOA	20 A	N 9 4	~ 99 v	9 8 A	15°	128 A	140 140
HAZARD/PROTECTION C-WEIGHTED OVERALL SOUND A-WEIGHTED OVERALL SOUND	NO LEVEL		COASLC IN	080	AT EAR	2 M 2 M							
MAXIMUM PERMISSIBLE			MINUTES	9	ONE EXP	SURE	PER DAY	CAFR	161-35,	JULY	73)		
OASLC	100	66	66	86	96	66	66	76	66	100	101	101	102
	22	120	143	143	240	9 2	22	120	9.2	101	82	60	200
MINIMUM QPL EAR MUFFS OASLA*	28	"	*	76	74	76	92	22	"	7.8	62	62	79
	0	096	960	960	960	960	960	960	196	096	196	196	96
AMERICAN OPTICAL 1700 EAR OASLA*	R HUFF	5 73	73	12	22	12	12	22	72	73	7.4	:	2
-	960	960	096	960	096	96	960	196	196	096	196	960	960
V-51R EAR PLUGS OASLA+	12	69		19	49	29	89	99	69	12	12	72	73
AMERICAN OPTICAL 1700 EAR	960 R MUFF	S PLUS	960 V-51	960 EAR	960	960	968	960	096	096	096	960	96
	· ·	120 -			52	55	98.0	53	92 8	57	57	58	58
H-133 GROUND COMMUNICATION UNI	NO NO	-	3	4	1	:	3	1					3
4-4-3-25 (1-25-6) (1-	960	960	960	960	960	960	966	96	960	960	960	968	960
COMMUNICATION PREFERRED SPEECH INTER	INTERFERENCE 89	E LEVEL	IL (PSIL	Z.	80	9	8			9	6	:	8
ANNOYANCE PERCEIVED NOISE LEVEL,	TONE	CORREC	TEO C	PNLT I	CORRECTED (PNLT IN PNDB)							20.0	
	110	108	107	106	104	110	111	109	110	109	110	112	#

6 1/3	1/3 OCTAVE DISTANCE =	BAND = 20	METERS	RS													OMEGA	A 1.4	
NOISE SOURCE/SUBJECT A/H32A-60A GENERAT AND A/H32C-10 AIR COMBINED UNIT OPER FAR FIELD NOISE LE	SUBJECT GENERAT GENERAT 10 AIR NIT OPER	VEL VEL	SET S	0000	OPERATION: GEN LODGED 100AMP, 240VAC 3PH, BY M24T-8 LOAD BANK, 40 PSI AIR TO A/H32C-10, AC AIR OUTPUT 40 LBS/MIN	ADED Y M24 AIR	10 AM	DAMP, 240VAC B LOAD BANK, A/M32C-10, 40 LBS/MIN	ANK,		METEOROLOGY TEMP BAR PRESS REL HUMID	PPESS HUMID		24 X X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	왕		15 0CT PAGE	2 2	
FREQ	0	97	20	30	9	50	90	2 P	ANGLE 0	DEGREES)	EES)	110	120	130	140	150	160	170	180
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63	794	774	784	784	>62	>62	784	774	>62	80	814	794	794			784	794	80	80
00	82	82	262	83	83	82	82	81	10	83	794	784	794	794	80	83	83	10	93
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250	80	82	81	83	81	80	80	80	81	81	81	81	82		81	83	85	85	98
315	83	82	98	87	85	83	82	81	81	81	80	11	11		11	62	82	81	84
004	11	75	82	81	80	62	78	11	75	7.4	72	11	71		2	11	7.4	92	77
200	78	11	83	81	8	80	11	92	92	77	15	72	7		69	92	81	85	82
630	=	72	29	11	92	*	73	71	70	2	20	72	89		92	2	11	82	83
800	68	29	74	20	72	11	7.1	7.1	7.1	69	69	73	7		78	2	92	2	*
1000	65	9	99	89	69	68	29	99	19	99	99	69	99		7	73	73	72	78
1250	61	9	99	29	2	89	99	19	63	65	99	29	65		65	29	99	9	7
1600	28	69	99	99	89	29	19	63	3	63	19	62	63		69	65	89	7	7
2000	62	29	69	69	3	89	99	69	9/	69	69	69	65		99	89	69	99	2
2500	69	99	72	72	72	11	11	7.1	2	69	29	89	29		99	69	2	72	73
3150	29	65	72	12	72	2.	15	28	7	11	11	2	12		12	2	72	75	76
0004	99	69	7.1	12	23	2	15	11	74	72	72	73	72		23	2	12	*	79
2000	65	69	69	89	29	29	29	29	99	99	68	29	69		72	2	73	75	7
6300	63	9	29	99	29	99	69	9	63	19	9	99	29		69	69	12	73	2
9000	28	19	99	29	99	99	99	63	19	79	9	9	65		69	29	89	2	72
10000	9	65	29	72	2	69	29	99	9	99	99	29	89		8	8	2	72	7
OVERALL	93	92	20	98	10	20	92			6	•	00			6	00	20	70	9

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6 1/3 OCTAVE DISTANCE =	VE BANG	HETERS	ERS	רב עבר											0	IE GA	ONE GA 1.4
NOISE SOURCE/SUBJECT	~	SET	8	PERATIONS GEN LOAD	ONE	100A	MP, 2	40VAC	Ŧ ~~	HETEOROLOGY TEMP	000 Y	- 2	ပ		= & ^ ^	72	2
AND A/M32C-10 AIR C	AIR COND.	. 2		3PH,	3PH, BY M24T-8 LOAD BANK,	4T-8	LOAD	BANK,		BAR	PRESS	69	93 M P	¥	- 15	5 OCT	75
0,	LEVELS			AC AI	R OUT	PUT	0 LBS	NIN	-	1					, P	PAGE	2
FREQ							4	2	(DEGREES)	ES)							
(HZ)	190	200	210	220	230	240	250	260	270	280	590	300	310	320	330	340	350
25												784		80 <	784	834	82<
31.5																794	804
4 6																804	804
63	794	784	77.	>77	77.	774	774	77.	774	794	>62	794	794	814	>62	814	814
98	83	82	80	804	82	80	80 4	82	82	82	10	82	85	9 4	94	9.4	83
100	83	82	82	80	81	79	7.8	7.8	80	82	94	94	98	87	85	18	984
125	98	81	81	16	83	83	82	82	29	80	62	81	81	83	94	82	82
160	87	96	83	83	82	83	85	82	85	83	**	84	83	94	87	85	10
200	82	83	83	83	82	81	80	81	85	84	83	82	62	81	81	80	82
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630	81	78	75	25	78	92	29	12	7.1	14	92	75	22	72	73	2.0	77
800	82	83	94	81	81	7.8	73	73	7.1	73	75	92	11	74	22	92	23
1000	92	78	7.8	75	*	7.1	7.0	89	99	99	99	69	69	29	69	2	89
1250	2	69	69	68	69	69	69	69	65	29	19	29	99	49	29	99	65
1600	7.0	20	68	65	9	49	9	65	99	65	65	9	65	19	65	29	63
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6300	4.2	75	72	20	69	67	68	29	99	69	79	65	99	69	29	89	79
8000	71	72	69	19	69	69	69	19	63	62	19	49	19	19	99	99	62
10000	22	2	70	99	29	19	29	69	69	69	99	29	29	99	69	99	9

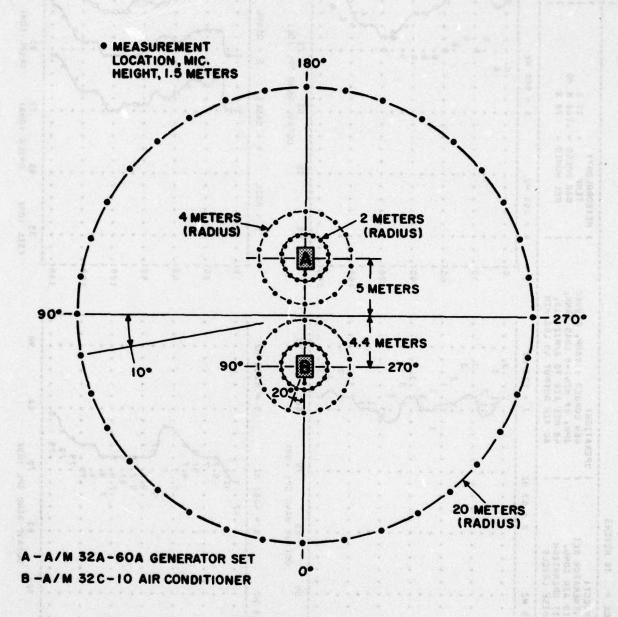
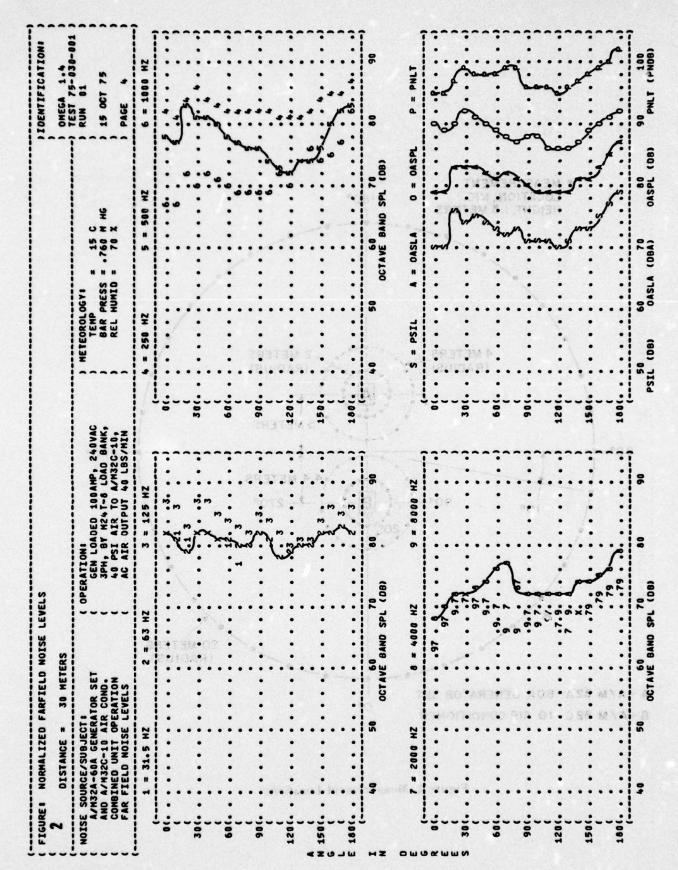
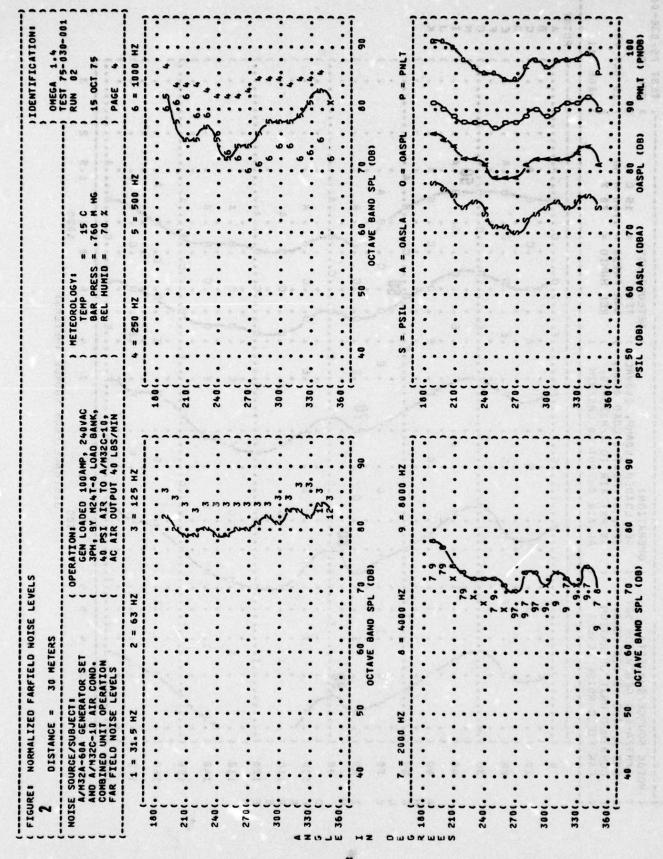
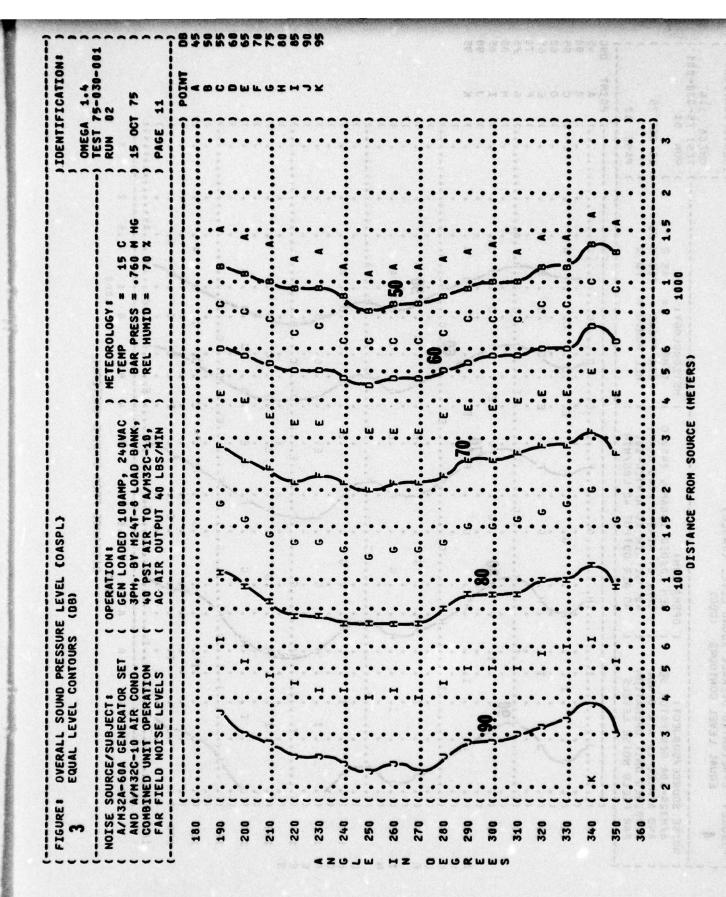


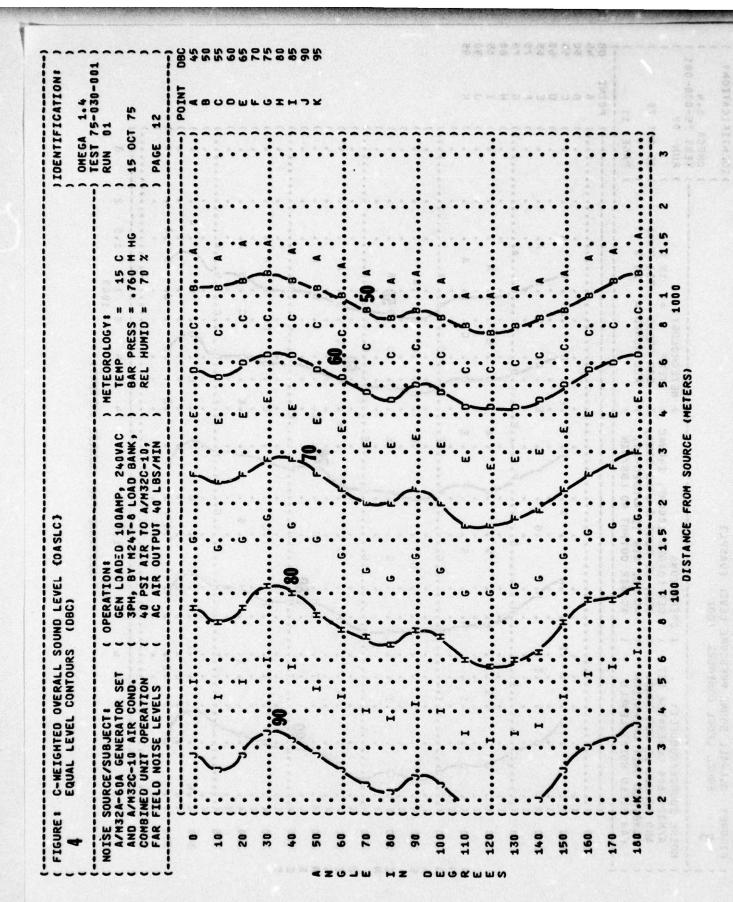
Figure 1. Measurement Locations

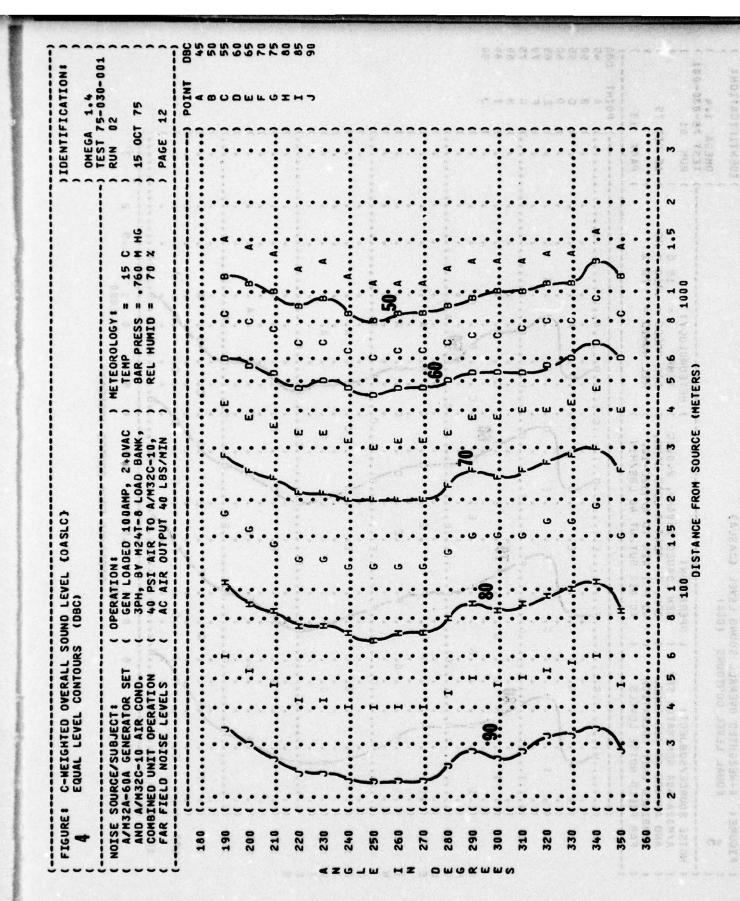




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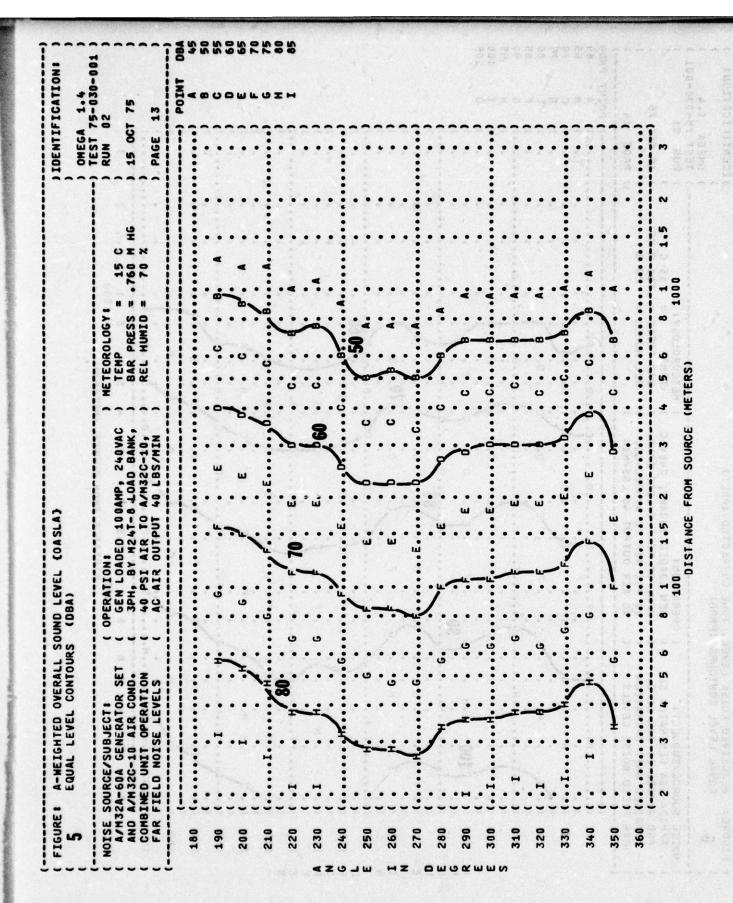






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OMEGA 1.4	175	EH7				(
	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M MG REL HUMID = 70 X	S			ر 	
DBA)	OPERATION: GEN LOADED 100AMP, 240VAC) T 3PM, BY M24T-8 LOAD BANK,) B 40 PSI AIR TO A/M32C-10,) R AC AIR OUTPUT 40 LBS/MIN)					
5 EQUAL LEVEL CONTOURS (DBA)	NOISE SOURCE/SUBJECT: (OPI A/H32A-60A GENERATOR SET (AND A/H32C-10 AIR COND. (COMBINED UNIT OPERATION (FAR FIELD NOISE LEVELS (AND A)			ن د د د د د د د د د د د د د د د د د د د	190 1	7 2 6



5 17:00000:00000:00000:00000:00000:00000	6 EQUAL	EQUAL LEVEL CONTOURS	KS (FNUB)							6	ONE GA	1.4
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IDENTIFICATION:) OMEGA 1.4	14		
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VED	SUBJECT: GENERATOR 10 AIR CON IIT OPERATIONSE LEVEL	H	± ;
PERCEIVED NOISE LEVEL, EQUAL LEVEL CONTOURS (1	E/SU C-10 UNIT		
EG	SOURCE/SUBJECT: 24-04 GENERATO 4/432C-10 AIR C INED UNIT OPERA FIELD NOISE LEV		
FIGURE 1	NOISE SOURCE/SUBJECT: A/M32A-60A GENERATOR SE AND A/M32C-10 AIR COND. COMBINED UNIT OPERATION FAR FIELD NOISE LEVELS	190 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	280 (290 (290 (300))))))))))

FICATION: 1.4 75-030-001 01 7 75 15	NA 80 CO M F G H J	MZC 4mm done
) IDENTIFICATION:) OMEGA 1.4) TEST 75-030-00) RUN 01) 15 OCT 75) PAGE 15		
FIGURE: PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) 7		

NEMBORO ZH MEGZA

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IDENTIFICATIONS OMEGA 1.4	75	F N N N N N N N N N N N N N N N N N N N	
) IDENTIF	15 OCT		
	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUNID = 70 %		
	240VAC) AD BANK,) 32C-10,) LBS/MIN)		
(DB)	OPERATION: GEN LOADED 100AMP 3PM, BY M24T-8 LO 40 PSI AIR TO A/M AC AIR OUTPUT 40		
PREFERREU SPEECH INTERN EQUAL LEVEL CONTOURS	SOURCE/SUBJECT: 2A-61A GENERATOR SET (A/M32C-10 AIR COND. INEO UNIT OPERATION FIELD NOISE LEVELS		
FIGURE! PRE	NOISE SOURCE/SU A/M32A-60A GE AND A/M32C-10 COMBINED UNIT FAR FIELD NOI	190 C. 1 200 C. 2 200 C. 1 240 C. 1 250	340 (

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	24T-8 LOAD BANK, 2 TO A/M32C-10, FPUT 40 LBS/MIN					1 4		1 5 6
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	PERATION: GEN LOADED 100A 3PH, BY H24T-8 40 PSI AIR TO A AC AIR OUTPUT 4		• • • • •		a er er egti i			1.5
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S	OPERATIONS GEN LOAD 3PH, BY 40 PSI A				Mi.			
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EQUAL TIME CONTOURS NO PROTECTION	N C C P C	1	0	- 2	4.2	: 18	ノ	10 123-35 A
WZ	ISE SOURCE/SUBJECT: A/H32A-60A GENERATO AND A/H32C-10 AIR C COMBINED UNIT OPERA FAR FIELD NOISE LEV						·	1 16 5H
∞	M M	5655555		300000	3	3	300000	-
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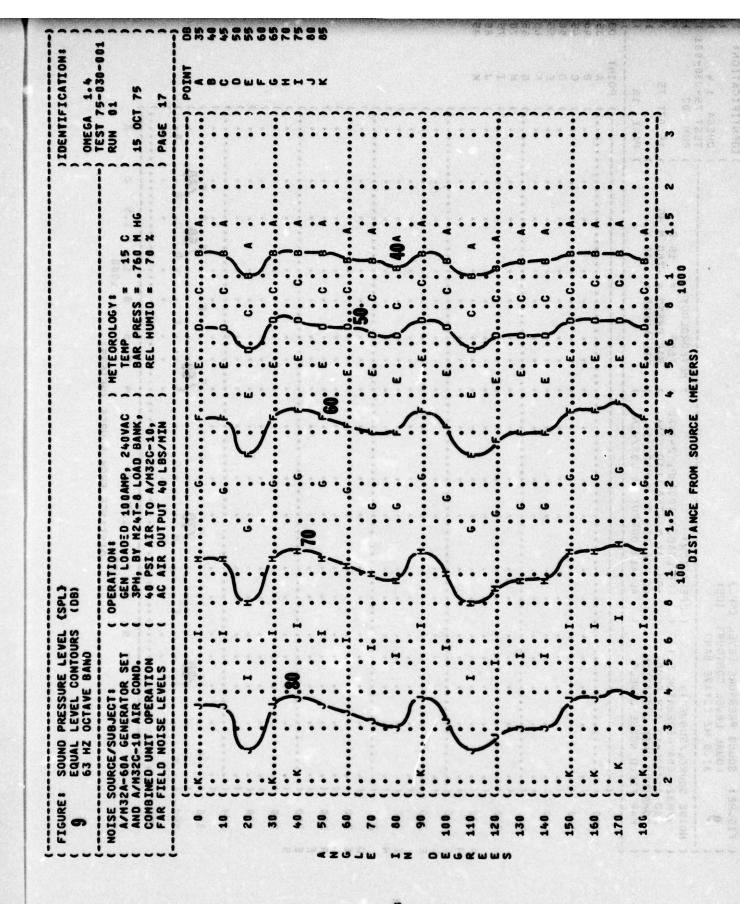
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(SPL)	COPERATIO GEN LO GEN LO GAPH, B	`\	
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FIGURE: SOUND GEQUAL GS HZ	NOISE SOURCE/SUBJECT: A/M324-604 GENERATOR AND A/M32C-10 AIR CON COMBINED UNIT OPERATI	22 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	260 290 290 340 350 350 350 350 350 350 350 350 350 35

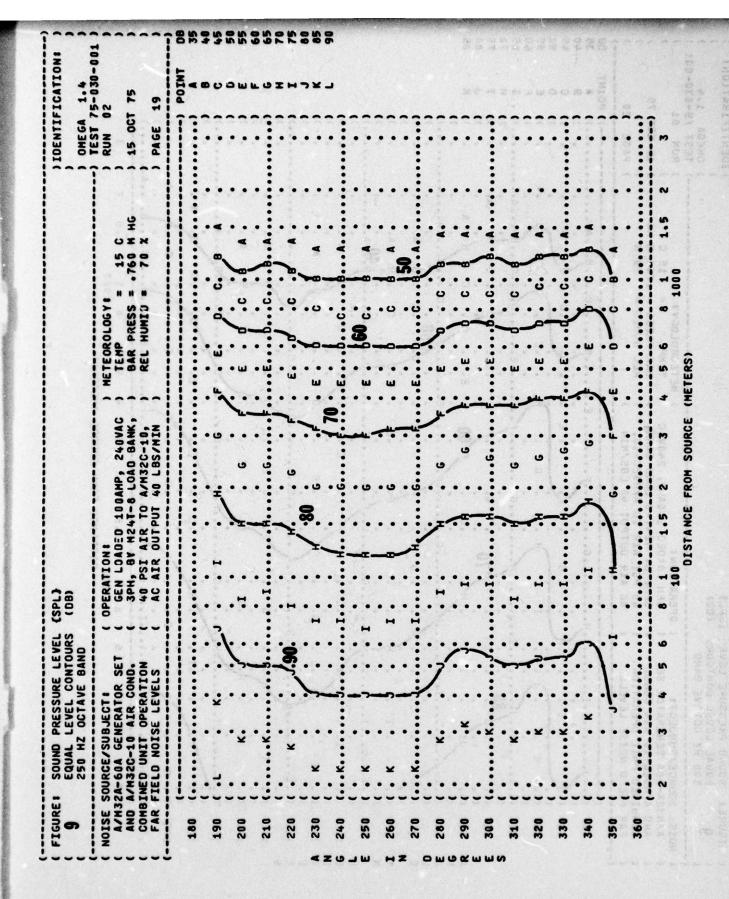
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9 EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND NOISE SOURCE/SUBJECT: (OPERATION: A/M32A-60A GENERATOR SET (GEN LOADED 100AMP, 240VAC) TEMP = 15 C) A/M32A-60A GENERATOR SET (GEN LOADED 100AMP, 240VAC) TEMP = 15 C) AND A/M32A-60A GENERATOR (40 PSI AIR TO A/M32C-10,) REL HUMID = 70 Z) FAR FIELD NOISE LEVELS (AC AIR OUTPUT 40 LBS/MIN)					2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5 2

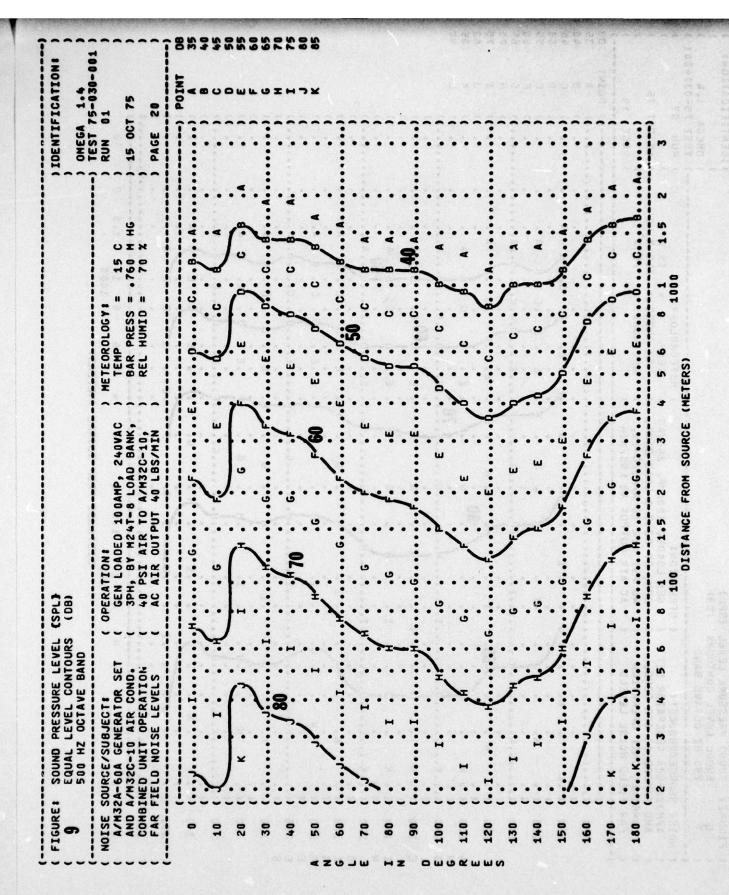
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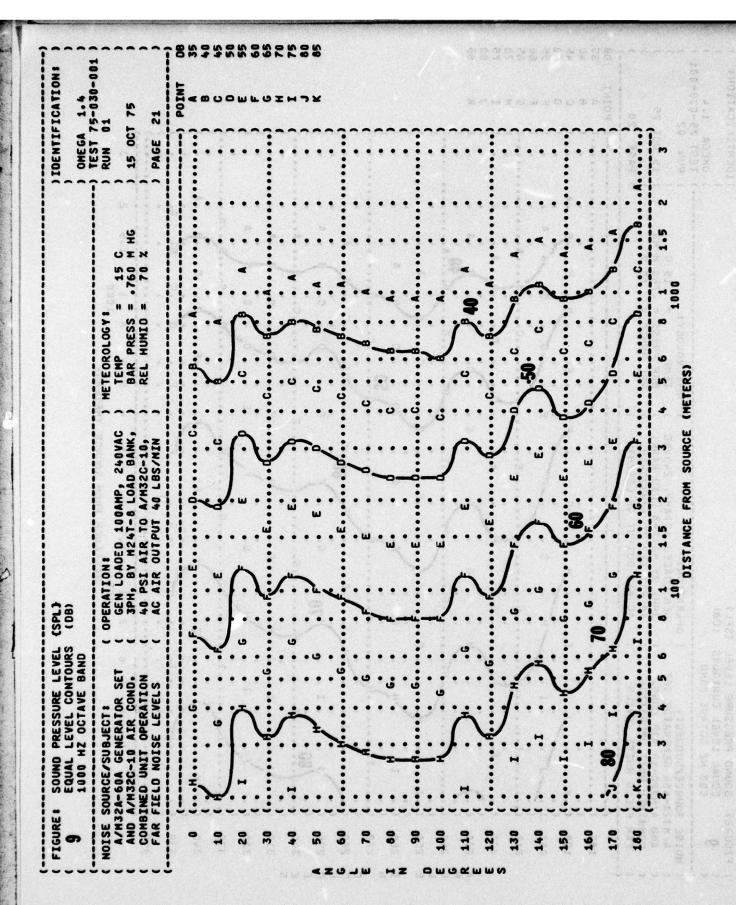
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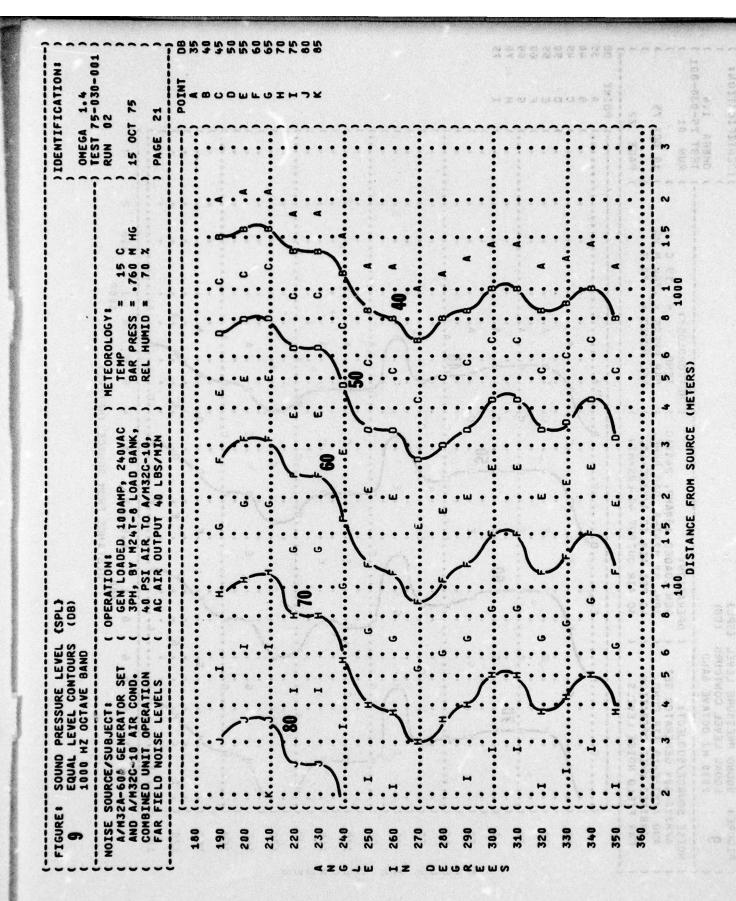
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IDENTIFICATIONS OMEGA 1.4	01 17 19	Î n
(SPL.) (08)	(OPERATION:) METEOROLOGY:) (GEN LOADED 100AMP, 240VAC) TEMP = 15 C) (3PH, BY M24T-8 LOAD BANK,) BAR PRESS = .760 M HG) (40 PSI AIR TO A/M32C-10,) REL HUMIO = 70 %)	6 1 1.5 2 3 4 5 6 8 1 1.5 2
FIGURE: SOUND PRESSURE LEVEL 9 EQUAL LEVEL CONTOURS 250 HZ OCTAVE BAND	NOISE SOURCE/SUBJECT! A/M32A-60A GENERATOR SET AND A/M32C-10 AIR COND. COMBINED UNIT OPERATION FAR FIELD NOISE LEVELS	2 3 4 5









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